

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063328 A1

(51) International Patent Classification⁷: **A61M 16/06**

(21) International Application Number:
PCT/AU2004/001832

(22) International Filing Date:
24 December 2004 (24.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/533,214 31 December 2003 (31.12.2003) US

(71) Applicant (*for all designated States except US*): **RESMED LTD** [AU/AU]; 97 Waterloo Road, North Ryde, New South Wales 2113 (AU).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **DAVIDSON, Aaron** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **GUNARATNAM, Michael** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **LYNCH, Susan** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **RAJE, Milind** [AU/AU]; c/-

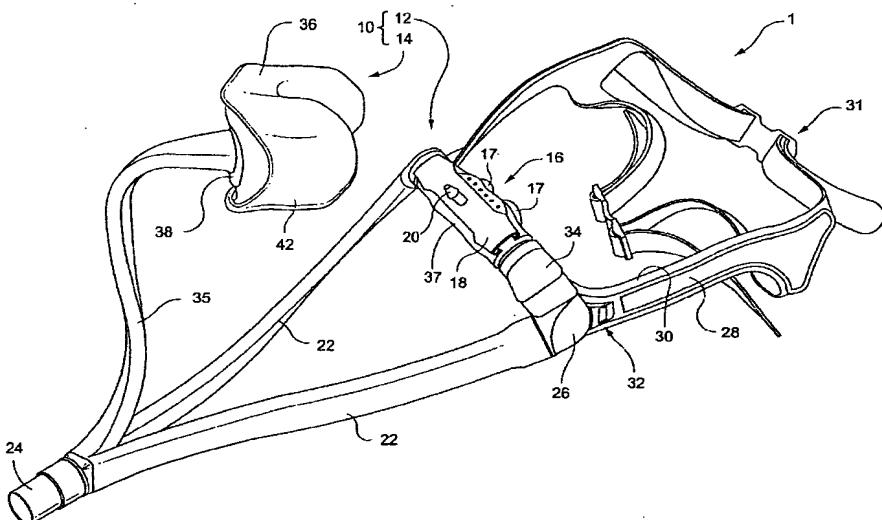
ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **ROBINSON, Gary** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **LUBKE, Steven** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **SMART, Gregory** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **KWOK, Philip** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU). **SCHEINER, Rupert** [AU/AU]; c/- ResMed Ltd, 97 Waterloo Road, North Ryde, New South Wales 2113 (AU).

(74) Agents: **DAVIDSON, Geoffrey Robert et al.**; Halford & Co, 1 Market Street, Sydney, New South Wales 2000 (AU).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: COMPACT ORONASAL PATIENT INTERFACE



(57) Abstract: A breathing arrangement includes a patient interface (10), at least one inlet conduit (22), and a headgear assembly (31). The patient interface (10) includes a mouth covering assembly (14) including a cushion structured to sealingly engage around exterior of a patient's mouth in use, a nozzle assembly (16) including a pair of nozzles (17) structured to sealingly engage within nasal passages of a patient's nose in use, and a flexible element (41) connecting the mouth covering assembly (14) and the nozzle assembly (16). The at least one inlet conduit (22) is structured to deliver breathable gas into at least one of the mouth covering assembly (14) and the nozzle assembly (16) for breathing by the patient. The headgear assembly (31) is removably connected to at least one of the mouth covering assembly (14) and the nozzle assembly (16) so as to maintain the mouth covering assembly (14) and the nozzle assembly (16) in a desired position on the patient's face.

WO 2005/063328 A1



(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report